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Three Bedrooms  
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Every drop of milk we de-  
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**\$2400**

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The Most Popular Candies Made  
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1024 Fort St. Telephone 1384

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It gives the very amateur  
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HONOLULU. Phone 1846.

**Townsend  
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Night and Day Phone, 1325  
71 BERETANIA

## WHY HONOLULU HARBOR IS CLEAN; SHARKS KEPT OUT BY CURRENTS

Captain J. R. Macaulay Explains Forces of Nature Which  
Prevent Port from Earning the Title of "Black Hole of  
Oahu—How Sewage Is Swept Out to Sea

"Were it not for the existence of  
four separate and distinct currents  
of water operating continuously with-  
in the harbor, Honolulu would be one  
of the sickest ports in the world.  
The vast amount of sewage and refuse  
which enters the harbor each day  
would circulate without an outlet,  
breeding disease without end."

With the above paragraph Captain  
J. R. Macaulay begins his report on  
the currents and tides in the harbor  
which he has made to the Harbor  
Commissioners.

The noted authority on the physical  
geography of the sea declares that the  
only reason that Honolulu harbor is  
not full of sharks at all times is be-  
cause of an undercurrent which is so  
foul that it would mean death to  
even the scavenger of the seas to  
feed in it.

Captain Macaulay's report is likely  
to prove of interest to all those in-  
terested in shipping and the study of  
currents and tides and contains as  
well a large amount of information  
for the layman. It is as follows:

By CAPT. J. R. MACAULAY.

Not many years ago a movement  
was made to change the outlet of  
Nuuanu stream into Kalia Bay; but  
a wise and kind providence still  
watches over us, and the outlet was  
not changed because of the lack of  
money. How fortunate for us that it  
happened so, otherwise we would to-  
day have as a harbor a dead sea, in  
which no living thing could enter and  
live for any length of time, a place  
to keep away from, and if once seen  
to be remembered only, not once seen  
as the Black Hole of Calcutta, but as the  
Black Hole of Oahu.

A study of the physical geography  
of the sea will cause you to wonder  
at the perfect system of circulation  
continuously in motion to keep the  
sea clean and healthy as a human  
being. It is just so with our harbor;  
there must be a perfect system of  
circulation kept up, if not, sickness  
and death is the result.

I might state that we should con-  
sider ourselves specially favored in  
the location of our harbors on the  
south side of Oahu, so being placed  
at right angles from the diurnal rota-  
tion of the earth, which rotation af-  
fects considerably all straits or har-  
bors facing East or West, causing  
violent currents to form at their en-  
trances.

To the apparent absence of such  
rotation is due the easy and slow  
current entering Honolulu, also Pearl  
Harbor. To explain briefly the cur-  
rent entering Honolulu harbor—and  
the same applies to Kalia and Pearl  
Harbor, I will state up the currents:  
**FIRST CURRENT**—The main ar-  
tery or stream of motion causing a  
current, is Nuuanu stream flowing  
continuously through the harbor on  
its outward course toward the ocean,  
and as it proceeds, carries with it, ac-  
cording to its momentum, a portion  
of water attracted toward it by trac-  
tion, or I may say friction, and it also  
carries all sorts of flotsam that comes  
within its reach and deposits the con-  
tents far out into the sea, to be taken  
up by other currents afterward. After  
performing its short-lived usefulness,  
it fuses with the larger streams of  
the ocean. Nuuanu stream is a sur-  
face current only, being much lighter  
than the surface water in the harbor.  
**SECOND CURRENT**—This I will  
call the "under current." If we ex-  
cept the tides and the partial cur-  
rents of the sea, such as those that  
may be created by the wind, we may  
lay it down as a rule that all the  
currents of the ocean owe their ori-  
gin to the difference in specific grav-  
ity between sea water at one place  
and sea water at another, for where-  
ever there is such a difference,

whether it be owing to difference in  
temperature, or to difference in salin-  
ity, it is a difference that disturbs  
equilibrium and currents are the con-  
sequence. The heavier water goes  
toward the lighter, and the lighter  
when the heavier comes, for two  
fluids differing in specific gravity and  
standing at the same level, can no  
more balance each other than un-  
equal weights on opposite scales. It  
is immaterial whether this difference  
of specific gravity be caused by tem-  
perature, or by the matter held in  
solution, or by any other thing, the  
effect is the same, namely, a current.

Now it must follow that the momen-  
tum of this counter—or under—current  
is just the same as that of the surface  
current which has created it, and car-  
ries all jetsam that comes within its  
reach; so you may wonder at the enor-  
mous amount of sunken rubbish car-  
ried along by this stream, having the  
same depth and covering the same  
space as its creator. Although not  
visible to the eye it does its work  
with the same incessant energy as the  
surface current, and seems to return to  
us all, if not more of the flotsam  
which Nuuanu carried away—but in  
what a different condition!

**Carried Back To Harbor.**  
For instance, a dead animal floating  
outward to sea by the surface cur-  
rent gradually sinks lower and lower,  
until it is within the grasp of the un-  
der-current, and when so, is carried  
back into the harbor, spreading dis-  
ease as it slowly proceeds until it is  
thoroughly decomposed.

This under-current is certainly a ter-  
ror, and if not combatted by a bottom,  
or ground-current, would change the  
water within the harbor to an inky  
black color, in which no living thing  
could possibly live for any length of  
time.

There is just one point in favor of  
this under-current. Its presence with-  
in the harbor keeps the man-eating  
shark away, for even the shark knows  
that a continuous feeding in this un-  
der-current means death, and but for  
the presence of this obnoxious current  
the harbor would be full of sharks at  
all times. Do not imagine that it is  
not come inside the harbor, for it has  
no fear, any more than the mullet, al-  
though the latter comes inside the  
harbor. But the mullet is a surface  
fish, while the shark prefers deeper  
water.

**Third, or Graving Current.**  
This is caused partially, I fully be-  
lieve, by a difference of saltness, and  
also by the diurnal rotation of the  
earth, and I consider this ground cur-  
rent to be our very best sanitary  
friend. No member of the board of  
health can be compared to this san-  
itary friend of ours, that does its work  
so thoroughly, and sweeps along the  
bottom of the harbor, cleaning up all  
matter in its semi-circular course out-  
ward toward the sea. This matter is  
carried without interruption across the  
harbor and outward until it meets a  
fourth current running to the west-  
ward, and partially obstructed by a  
coral wall built almost halfway out-  
ward of the harbor channel.

Now this westerly current is by far  
the most powerful current in the vicin-  
ity, and sometimes travels at a rate  
of three miles an hour. It shows ut-  
ter contempt of the coral wall and  
crosses into the harbor channel, com-  
ing directly into contact with the other  
currents already mentioned, caus-  
ing thereby a rotary current, or mael-  
strom. Within this maelstrom for a  
short period of time, all matter  
brought to it by the ground current  
circles around, eventually being car-  
ried outward to sea, never to return.

Currents may be named in two  
classes, natural and artificial. Air de-  
grees. Rise and fall of tide, eighteen  
inches.

## CHINESE FIRST VOTE IN PRESIDENTIAL PRIMARIES

By casting a vote at the presiden-  
tial primary held on the mainland last  
April, Kim Tong Ho was the first Ha-  
waiian-Chinese to take part in a presi-  
dential election. Kim Tong Ho, who  
is the son of Ho Fon of Bishop and  
Company, bankers, has just taken his  
A. B. degree at the University of Wis-  
consin, and is expected home Wed-  
nesday on the Wilhelmina.

While in college, he took an active  
part in student affairs and was a mem-  
ber of several literary societies be-  
sides holding office in numerous Chi-  
nese student organizations. Kim took  
the Chinese question for his thesis  
subject and received favorable com-  
ment upon it.

The main subject, which he studied  
were money and banking, banking re-  
forms, corporation law and finance,  
business administration, taxation,  
business law, municipal problems,  
state and federal governments, Euro-  
pean governments and international  
law. He speckled in economics and  
political science.

## MAY DELIVER NEW BONDS IN INSTALLMENTS

If the purchasers are willing, the  
new Territorial bond issue on which  
Treasurer Conkling is working in New  
York may be delivered in install-  
ments, probably in lots of \$500,000,  
three or four months apart. Such is  
the statement of Governor Frazier.

Conkling, in a recent letter, says  
the market appears dull, and cit-  
es the case of Baltimore, which has ob-  
tained only 97 for its four per cents.  
It is understood however that the gov-  
ernment contemplates the establish-  
ment of a vast number of postal sav-  
ings banks and that the Hawaiian  
bonds may be desired for security for  
savings bank funds, thus enhancing  
their market value.

## FORTY SUCCESSFUL YEARS.

For almost forty years Chamber-  
lain's Colic, Cholera and Diarrhoea  
Remedy has been curing cramps in  
the stomach and bowels, dysentery  
and diarrhoea and has never been  
known to fail to give relief even in the  
most severe and dangerous cases. You  
can make no better provision for the  
safety of your family than to keep a  
bottle of this remedy ever at hand.  
For sale by all dealers. Benson,  
Smith & Co., agents for Hawaii.

After they reach the age of 40, wo-  
men laugh only when they feel like it.

## RUSH OF MINERS TO FRENCH CREEK FIELDS

News of Rich Strike Cause of  
Stampede—Claims  
Staked

Revelstoke, June 28.—It seems  
that there will be repeated this year  
the rush of miners into the famous  
placer fields on the tributaries of Old  
Gold Stream, seventy-five miles north  
of Revelstoke. Prospectors by twos  
and threes, every night for the past  
month, have been leaving town for  
French Creek and McCullough  
Creek diggings. Many placer claims  
have been already staked out.

The cause of the stampede is the  
news of a rich strike of placer gold  
along an old channel, discovered by  
three prospectors, who, for over a  
year, have been prospecting this chan-  
nel.

Between the years 1860 and 1865  
the old workings on French Creek  
yielded in the neighborhood of four  
million dollars to the hundreds of min-  
ers and prospectors who worked its  
rich gravel to bedrock. At that time  
a typical boom town was established,  
with a population of from three to  
four thousand people, with its usual  
accessories in the shape of saloons,  
dance halls and billiard rooms. For  
years past miners and prospectors  
have been looking for an old channel  
on French Creek, which was  
known to exist from the very nature  
of the ground. The recent find is  
believed to be as rich or richer than  
the workings along the present creek,  
from which so many millions were ex-  
tracted in the sixties. For a number  
of years the well known placer min-  
ing man, Mr. E. A. Bradley, has been  
constantly at work on French Creek,  
developing and prospecting. He has  
purchased a steam placer drill, which  
he is putting on the ground on French  
Creek, for the purpose of more easily  
and expeditiously prospecting his  
claims. Mr. Bradley's boilers, en-  
gines and drills had to be taken apart  
and packed into the mines over forty  
miles of a trail on pack horses.

Mr. Warren Andrews and Mr. Hart  
Munro have located beside the Mont-  
gomery properties between this prop-  
erty and that owned by Mr. R. A.  
Miller and associates. The surround-  
ing ground is being staked as fast as  
men and horses can reach there from  
Revelstoke, which is the nearest city.

French Creek can be reached in one  
day from Revelstoke by a forced  
march, the steamer Revelstoke makes  
two trips each week up the river to  
Downie Creek, 40 miles from Downie  
Creek to French Creek is 30 or 35  
miles over a pony trail. There is also  
a pony trail all the way from Revel-  
stoke to French Creek, and a two-  
day ride will negotiate this trail.

The Government of British Colum-  
bia is now spending thousands of dol-

Established 1870

## Walter Baker & Co.'s

## CHOCOLATES and COCOAS

For eating, drinking and cooking  
Pure, Delicious, Nutritious

"THE LAST DROP IS AS GOOD AS THE FIRST"



Registered U. S. Patent Office

Breakfast Cocoa, 1-2 lb. tins

Baker's Chocolate (unsweet-  
ened), 1-2 lb. cakes

German's Sweet Chocolate,  
1-4 lb. cakes

For Sale by Leading Grocers in Honolulu

**Walter Baker & Co. Ltd.**  
DORCHESTER, MASS., U. S. A.

53 HIGHEST AWARDS IN  
EUROPE AND AMERICA

lars in the Big Bend District, be-  
tween Revelstoke and French Creek,  
with a view to giving early access to  
the lode, as well as placer ground in  
the district. The Premier has prom-  
ised a railway through this district  
and it is expected that within three  
years such will be an accomplished  
fact.

The gigantic mineral timber and  
water power resources of the Big  
Bend District have always been justly  
regarded as the greatest combination  
of assets in the interior of British Col-  
umbia, and an immense impetus will  
be given to the city of Revelstoke,  
and the whole southern interior of  
British Columbia, by the development  
of the Big Bend country.

The raising of a large part of the  
wreck of the Yankton shortly off At-  
lantic City revealed no sign of storm  
having been a fire.

## The Handsomest Soda Fountain Ever Shipped to Hawaii

Is now installed, and ready for business, in our store. It is a "BECKER," the latest model, and is ab-  
solutely SANITARY. What does SANITARY SERVICE mean to YOU?

It Means:

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All straws are in sealed envelopes, not picked over, nor exposed to flies and dust.  
Syrups and fruits kept cold, in glass and porcelain containers.  
Absolute cleanliness behind the counter; no dark and dirty corners.  
We invite your inspection of our new fountain; we are proud of it, and will be pleased to explain the  
new method of refrigeration to you.

**Benson, Smith & Co., Ltd.** Fort and Hotel Streets

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A big line of Suits specially designed for boys, big and little,  
in XTRAGOOD clothes, the kind that **wears** and **stands**  
**abuse**, and **looks well**.

Here, too; you'll find **complete outfits** for boys, all of  
the first quality, at right prices—**Shirts, Trousers, Shirt**  
**Waists, Neckwear, Stockings, Hosiery,**  
**Single Khaki Knickerbockers, Linen Trou-**  
**sers, Underwear.**

Everything your boy needs to wear is here.

**SILVA'S TOGGERY, Ltd.**  
Elks' Bldg. "The Store for Good Clothes" King St.



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